



| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|--------------------------|----------------------|--------------------------------------|--|--|--|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number | Kind Code ² (if known) | | | |
| JP ↑ ↓ JP | 1 | 5,396,567 | | Jass | 03-07-1995 | |
| | 2 | 5,552,832 | | Astle | 09-03-1996 | |
| | 3 | 5,832,234 | | Iverson, et al. | 11-03-1998 | |
| | 4 | 5,933,194 | | Kim, et al. | 08-03-1999 | |
| | 5 | 6,023,296 | | Lee, et al. | 02-08-2000 | |
| | 6 | 6,097,757 | | Boice, et al. | 08-01-2000 | |
| | | | | | | RECEIVED SEP 26 2002 Technology Center 2600 |

[illegible]

| | | | |
|-----------------------|--|--------------------|---------|
| Examiner Signature | | Date Considered | 2/00/04 |
|-----------------------|--|--------------------|---------|

*Unique citation designation number. *See attached Kinds of U.S. Patent Documents. *Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). *For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

10

Complete if Known

| | |
|------------------------|-----------------|
| Application Number | 097/54,683 |
| Filing Date | January 3, 2009 |
| First Named Inventor | Hyun Mun Kim |
| Art Unit | Not Assigned |
| Examiner Name | Not Assigned |
| Attorney Docket Number | 42390P10265 |

U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No.1 | Document Number | Publication Date or Issue Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------|--|--|---|---|
| | | Number - Kind Code ² (if known) | | | |
| SP ↑ ↓ HO | 1 | US-5,875,122 | 02-23-1999 | Acharya | |
| | 2 | US-6009,201 | 12-28-1999 | Acharya | |
| | 3 | US-6009206 | 12-28-1999 | Acharya | |
| | 4 | US-6091,851 | 07-18-2000 | Acharya | |
| | 5 | US-6,151,069 | 11-21-2000 | Acharya | |
| | 6 | US-6,130,960 | 10-10-2000 | Acharya | |
| | 7 | US-6,229,578 B1 | 05-08-2001 | Acharya | |
| | 8 | US-6,348,929 B1 | 02-19-2002 | Acharya | |
| | 9 | US-6,215,916 B1 | 04-10-2001 | Acharya | |
| | 10 | US-6,392,699 B1 | 05-21-2002 | Acharya | RECEIVED JUN 11 2003 Technology Center 260 |
| | 11 | US-6,356,276 B1 | 03-12-2002 | Acharya | |
| | 12 | US-6,366,694 B1 | 04-02-2002 | Acharya | |
| | 13 | US-6,366,692 B1 | 04-02-2002 | Acharya | |
| | 14 | US-6,154,493 | 11-28-2000 | Acharya | |
| | 15 | US-6,124,811 | 09-26-2000 | Acharya | |
| | 16 | US-6,233,358 B1 | 05-15-2001 | Acharya | |
| | 17 | US-6,236,765 B1 | 05-22-2001 | Acharya | |
| | 18 | US-6,047,303 | 04-04-2000 | Acharya | |
| | 19 | US-6,178,269 B1 | 01-23-2001 | Acharya | |
| | 20 | US-6,166,664 | 12-26-2000 | Acharya | |

RECEIVED
JUN 11 2003
Technology Center 2600

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

| Date | Considered |
|------|------------|
|------|------------|

2/00/04

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (05-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 05/02/2003.

Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



| | | | | | |
|--|---|----------------------|-----------------|------------------------|-------------|
| Substitute for form 1449A/PTO | | Complete if Known | | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Application Number | 097/54,683 | | |
| | | Filing Date | January 3, 2001 | | |
| | | First Named Inventor | Hyun Mun Kim | | |
| | | Art Unit | Not Assigned | | |
| | | Examiner Name | Not Assigned | | |
| Sheet | 3 | of | 6 | Attorney Docket Number | 42390P10265 |

RECEIVED
JUN 11 2003

Technology Center 2600

| OTHER ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------|---|----|
| Examiner Initials* | Cite No.† | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |
| JP | 39 | Bawolek, et al., "INFRARED CORRECTION SYSTEM", Application No.09/126,203, Filing Date 7-30-98, Atty Docket No.042390.P6172, Pgs. 22. | |
| | 40 | Pazmino, et al., "METHOD OF COMPRESSING AND/OR DECOMPRESSING A DATA SET USING SIGNIFICANCE MAPPING", Application No. 09/151,336, Filing Date 9-11-98, Atty Docket No. 042390.P6391, Pgs. 25. | |
| | 41 | Tan, et al., "ROBUST SEQUENTIAL APPROACH IN DETECTING DEFECTIVE PIXELS WITHIN AN IMAGE SENSOR", Application No. 09/171,310, Filing Date 10-13-98, Atty Docket No. 042390.P6575, Pgs. 35. | |
| | 42 | Acharya, et al., "COLOR INTERPOLATION FOR A FOUR COLOR MOSAIC PATTERN", Application No. 09/199,836, Filing Date 11-24-98, Atty Docket No. 042390.P6376, Pgs. 26. | |
| | 43 | Acharya, "ENHANCING IMAGE COMPRESSION PERFORMANCE BY MORPHOLOGICAL PROCESSING", Application No. 09/271,810, Filing Date 4-14-99, Atty Docket No. 042390.P6878, Pgs. 31. | |
| | 44 | Tsai, et al., "METHOD AND APPARATUS FOR ADAPTIVELY SHARPING AN IMAGE" Application No. 09/320,192, Filing Date 5-26-99, Atty docket No. 042390.P6452, Pgs. 29. | |
| | 45 | Tan, et al., "A HARDWARE EFFICIENT WAVELET-BASED VIDEO COMPRESSION SCHEME", Application No. 09/342,863, Filing Date 6-29-99, Atty Docket No. 042390.P6529, Pgs. 32. | |
| | 46 | Tan, et al., "A METHODOLOGY FOR COLOR CORRECTION WITH NOISE REGULATION" Application No. 09/359,831, Filing Date 7-23-99, Atty Docket No. 042390.P7320, Pgs. 30. | |
| | 47 | Acharya, et al., "IMAGE PROCESSING METHOD AND APPARATUS", Application No. 09/359,523, Filing Date 7-23-99, Atty Docket No. 042390.P7323, Pgs. 16. | |
| | 48 | Acharya, et al., "ZEROTREE ENCODING OF WAVELET DATA", Application No. 09/390, 255, Filing Date 9-3-99, Atty Docket No. 042390.P7057, Pgs. 25. | |
| | 49 | Acharya, et al., "A FUZZY BASED THRESHOLDING TECHNIQUE FOR IMAGE SEGMENTATION", Application No. 09/393,136, Filing Date 9-10-99, Atty Docket No. 042390.P7114, Pgs. 28. | |
| | 50 | Acharya, et al., "A FUZZY DISTINCTION BASED THRESHOLDING TECHNIQUE FOR IMAGE SEGMENTATION", Application No. 09/393,017, Filing Date 9-10-99, Atty Docket No. 042390.P7115, Pgs. 29. | |
| | 51 | Acharya, et al., "METHOD OF INTERPOLATING COLOR PIXEL SIGNALS FROM A SUBSAMPLED COLOR IMAGE", Application No. 09/410,800, Filing Date 10-1-99, Atty Docket No. 042390.P7331, Pgs. 20. | |
| | 52 | Acharya, et al., "SUARE ROOT RAISED COSINE SYMMETRIC FILTER FOR MOBLIE TELECOMMUNICATIONS", Application No. 09/429,058, Filing Date 10-29-99, Atty Docket No 042390.P7629, Pgs. 26. | |

| | | | |
|--------------------|--|-----------------|---------|
| Examiner Signature | | Date Considered | 2/10/04 |
|--------------------|--|-----------------|---------|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

†Applicant's unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.



| | | | |
|--|---|------------------------|-----------------|
| Substitute for form 1449A/PTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Application Number | 09/754,683 |
| | | Filing Date | January 3, 2001 |
| | | First Named Inventor | Hyun Mun Kim |
| | | Art Unit | Not Assigned |
| | | Examiner Name | Not Assigned |
| | | Attorney Docket Number | 42390P10265 |
| Sheet | 4 | of | 6 |

RECEIVED

JUN 1 2003

Technology Center 2600

| OTHER ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| JP | 53 | Acharya, et al., "INDEXING WAVELENGTH COMPRESSED VIDEO FOR EFFICIENT DATA HANDLING", Application No. 09/438,091, Filing Date 11-10-99, Atty Docket No. 042390.P6454, Pgs. 29. | |
| | 54 | Acharya, "METHOD OF UPSCALING A COLOR IMAGE", Application No. 09/461,080, Filing Date 12-14-99, Atty Docket No 042390.P7489, Pgs. 26. | |
| | 55 | Acharya, "METHOD OF CONVERTING A SUB-SAMPLED COLOR IMAGE", Application No. 09/461,068, Filing Date 12-14-99, Atty Docket No 042390.P7490, Pgs 22. | |
| | 56 | Acharya, et al., "CHIP RATE SELECTABLE SQUARE ROOT RAISED COSINE FILTER FOR MOBILE TELECOMMUNICATIONS", Application No. 09/467,987, Filing Date 12-20-99, Atty Docket No. 042390.P8026, Pgs. 44. | |
| | 57 | Tan, et al., "USING AN ELECTRONIC CAMERA TO BUILD A FILE CONTAINING TEXT", Application No 09/301,753, Filing Date 4-29-99, Atty Docket No. 042390.P5742, Pgs. 21. | |
| | 58 | Tan, et al., "METHOD AND APPARATUS FOR ADAPTIVELY SHARPENING LOCAL IMAGE CONTENT OF AN IMAGE", Application No. 09/328,935, Filing Date 6-9-99, Atty Docket No 042390.P7125, Pgs 29. | |
| | 59 | Acharya, "VIDEO MOTION ESTIMATION", Application No. 09/406,032, Filing Date 9-27-99, Atty Docket No. 042390.P7330, Pgs 24. | |
| | 60 | Acharya, et al., "METHOD OF COMPRESSING A COLOR IMAGE", Application No. 09-411,697, Filing Date 10-1-99, Atty Docket No. 042390.P7463, Pgs. 26. | |
| | 61 | Acharya, "DISCRETE FILTER", Application No. 09/432,337, Filing Date 9-2-99, Atty docket No. 042390.P7626, Pgs 22. | |
| | 62 | Miao, et al., "DUAL MOSE FILTER FOR MOBILE TELECOMMUNICTIONS", Application No. 09/467,611, Filing Date 12-20-99, Atty Docket No 042390.P8027, pgs. 49. | |
| | 63 | Mietz, et al., "IMAGE PROCESSING ARCHITECTURE", Application No. 09/473,643, Filing Date 11-18-99, Atty Docket No. 042390.P8050, Pgs. 12. | |
| | 64 | Acharya, "A BLOCK-MATCHING ALGORITHM FOR COLOR INTERPOLATION" Application No. 09/494,087, Filing Date 1-28-00, Atty Docket No 042390.P5090D, pgs 35. | |
| JP | 65 | Acharya, et al., "METHOD OF INVERSE QUANTIZED SIGNAL SAMPLES OF AN IMAGE DURING IMAGE DECOMPRESSION", Application No. 09/507,213, Filing Date 2-18-00, Atty Docket No 042390.P8350, Pgs 32. | |
| | 66 | Acharya, et al., "METHOD OF QUANTIZING SIGNAL SAMPLES OF AN IMAGE DURING IMAGE COMPRESSION", Application No. 09/507,399, Filing Date 2-18-00, Atty Docket No 042390.P7135, Pgs 24. | |

| | | | |
|--------------------|--|-----------------|---------|
| Examiner Signature | | Date Considered | 2/10/04 |
|--------------------|--|-----------------|---------|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (05-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 05/02/2003.
Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet

5

of

6

Complete if Known

| | |
|------------------------|-----------------|
| Application Number | 097754,683 |
| Filing Date | January 3, 2001 |
| First Named Inventor | Hyun Mun Kim |
| Art Unit | Not Assigned |
| Examiner Name | Not Assigned |
| Attorney Docket Number | 42390P10265 |

RECEIVED

JUN 1 2003

Technology Center 2600

OTHER ART - NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No.† | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |
|--------------------|-----------|---|----|
| JP | 67 | Acharya, et al., "METHOD OF INTERGRATING A WATERMARK INTO AN IMAGE", Application No. 09/519,874, Filing Date 3-6-00, Atty Docket No. 042390.P7136, Pgs. 27. | |
| | 68 | Acharya, et al., "METHOD OF USING HUE TO INTERPLATE COLOR PIXEL SIGNALS", Application No. 09/591,867, Filing Date 6-12-00, Atty Docket No. 042390.P8746, Pgs. 23. | |
| | 69 | Kim, et al., "METHOD OF PERFORMING MOTION ESTIMATION", Application No. 09/596,127, Filing Date 6-16-00, Atty Docket No. 042390.P8747, Pgs. 29. | |
| | 70 | Dunton, et al., "DUAL MODE DIGITAL CAMERA FOR VIDEO AND STILL OPERATION", Application No. 09/595,055, Filing Date 6-16-00, Atty Docket No. 042390.P5079, Pgs. 30. | |
| | 71 | Acharya, et al., "METHOD OF COMPRESSING AN IMAGE", Application No. 09/597,354, Filing Date 6-19-00, Atty Docket No. 042390.P8760, Pgs. 23. | |
| | 72 | Acharya, et al., "METHOD OF VIDEO CODING THE MOVEMENT OF A HUMAN FACE FROM A SEQUENCE OF IMAGES", Application No. 09/608,989, Filing Date 6-30-00, Atty Docket No. 042390.P8762, Pgs. 25. | |
| | 73 | Acharya, et al., "METHOD OF VIDEO CODING SHOULDER MOVEMENT FROM A SEQUENCE OF IMAGES", Application No. 09/607,724, Filing Date 6-30-00, Atty Docket No. 042390.P8763, Pgs. 24. | |
| | 74 | Acharya, et al., "MODEL-BASED VIDEO IMAGE CODING", Application No. 09/608,991, Filing Date 6-30-00, Atty Docket No. 042390.P8764, Pgs. 36. | |
| | 75 | Acharya, "TECHNIQUES TO IMPLEMENT ONE-DIMENSIONAL COMPRESSION", Application No. 09/666,486, Filing Date 9-18-00, Atty Docket No. 042390.P9921, Pgs. 19. | |
| | 76 | Acharya, "SAD COMPUTATION ARCHITECTURE", Application No. 09/677,829, Filing Date 9-29-00, Atty Docket no. 042390.P9823, Pgs. 24. | |
| | 77 | Acharya, "SAD COMPUTATION ARCHITECTURE", Application No. 09/677,830, Filing Date 9-29-00, Atty Docket No. 042390.P9824, Pgs. 27. | |
| | 78 | Acharya, et al., "A METHOD OF GENERATING HUFFMAN CODE LENGTH INFORMATION", Application No. 09/704,392, Filing Date 10-31-00, Atty Docket No. 042390.P9804, Pgs. 25. | |
| JP | 79 | Acharya, et al., "A METHOD OF PERFORMING HUFFMAN DECODING", Application No. 09/704,380, Filing Date 10-31-00, Atty Docket No. 042390.P9820, Pgs. 26. | |
| | 80 | Acharya, et al., "METHOD OF GENERATING A LENGTH-CONSTRAINED HUFFMAN CODE", Application No. 09/705,314, Filing Date 11-30/00, Atty Docket No. 042390.P10245, Pgs. 17. | |

Examiner
Signature

Date

Considered

2/10/04

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

†Applicant's unique citation designation number. †Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (05-03) as modified by Blakely, Solokoff, Taylor & Zelman (wtr) 05/02/2003.
Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



| | | | | | | |
|--|---|----------------------|-----------------|------------------------|-------------|------------------------|
| Substitute for form 1449A/PTO | | Complete if Known | | | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Application Number | 097754,683 | | | |
| | | Filing Date | January 3, 2001 | | | |
| | | First Named Inventor | Hyun Mun Kim | | | |
| | | Art Unit | Not Assigned | | | |
| | | Examiner Name | Not Assigned | | | |
| Sheet | 6 | of | 6 | Attorney Docket Number | 42390P10265 | Technology Center 2600 |

RECEIVED
JUN 1 2003

| OTHER ART - NON PATENT LITERATURE DOCUMENTS | | | |
|--|-----------|---|----|
| Examiner Initials* | Cite No.† | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |
| SP ↑ ↓ SP | 81 | Acharya, "METHOD AND APPARATUS FOR TWO-DIMENSIONAL SEPARABLE SYMMETRIC FILTERING", Application No. 09/713,663, Filing Date 11-15-00, Atty Docket No. 042390.P10409, Pgs.20. | |
| | 82 | Acharya, "METHOD AND APPARATUS FOR MULTIPLY-ACCUMULATE TWO-DIMENSIONAL SEPARABLE SYMMETRIC FILTERING", Application No. 09/718,877, Filing Date 11-20-00, Atty Docket No. 042390.P10545, Pgs. 13. | |
| | 83 | Acharya, et al., "ENCODING OF WAVELET TRANSFORMED ERROR DATA", Application No. 09/723,123, Filing Date 11-27-00, Atty Docket No. 042390.P7057X, Pgs. 38. | |
| | 84 | Acharya, et al., "A METHOD FOR BLOCK-BASED DIGITAL IMAGE WATERMARKING", Application No. 09/727,288, Filing Date 11-29-00, Atty Docket No. 042390.P10266, Pgs. 11. | |
| | 85 | Acharya, "TECHNIQUES TO IMPLEMENT TWO-DIMENSIONAL COMPRESSION", Application No. 09/664,131, Filing Date 9-18-00, Atty Docket No. 042390.P9922, Pgs. 24. | |
| | 86 | Acharya, et al., "DEVELOPING AN EULER VECTOR FOR IMAGES", Application No. 09/722,979, Filing Date 11-27-00, Atty Docket No. 042390.P10405, Pgs. 45. | |
| | 87 | Acharya, et al., "COMPUTING THE EULER NUMBER OF A BINARY IMAGE", Application No. 09/722,982, Filing Date 11/27/00, Atty Docket No. 042390.P10273, Pgs. 31. | |
| | 88 | Acharya, et al., "WAVELET CODING OF VIDEO", Application No. 09/722,988, Filing Date 11-27-00, Atty Docket No. 042390.P9822, Pgs. 40. | |
| | 89 | Acharya, et al., "IMAGING DEVICE CONNECTED TO PROCESSOR-BASED SYSTEM USING HIGH-BANDWIDTH BUS", Application No. 09/726,773, Filing Date 11-29-00, Atty Docket No. 042390.P10274, Pgs. 31. | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|--------------------|--|-----------------|---------|
| Examiner Signature | | Date Considered | 2/10/04 |
|--------------------|--|-----------------|---------|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

†Applicant's unique citation designation number. ‡Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (05-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 05/02/2003.
Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450